

Comparisons of Job Characteristics

Focus Occupation: **Forest and Conservation Technicians (19-4093)**

Associated Occupation: **Foresters (19-1032)**

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 73

Focus Occupation: Forest and Conservation Technicians (19-4093)

Associated Occupation: Foresters (19-1032)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Biology	3.7	12.8	9.4	<< Extensive education and/or training may be required
Geography	3.9	9.0	13.3	>> Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 77

Focus Occupation: Forest and Conservation Technicians (19-4093)

Associated Occupation: Foresters (19-1032)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Monitoring	9.9	16.7	10.6	<< Extensive development of skills in this area may be required
Coordination	9.1	15.4	10.3	<< Extensive development of skills in this area may be required
Judgment and Decision Making	9.4	15.1	10.7	<< Extensive development of skills in this area may be required
Systems Analysis	6.5	14.6	8.0	<< Extensive development of skills in this area may be required
Complex Problem Solving	9.1	14.5	9.1	<< Extensive development of skills in this area may be required
Systems Evaluation	6.4	12.6	7.9	<< Extensive development of skills in this area may be required
Time Management	8.9	12.5	9.2	<< Extensive development of skills in this area may be required

Negotiation	6.8	11.9	5.8	<<	Extensive development of skills in this area may be required
Management of Personnel Resources	6.9	11.8	9.1	<<	Extensive development of skills in this area may be required
Management of Material Resources	3.7	7.5	4.8	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 84

Focus Occupation: Forest and Conservation Technicians (19-4093)

Associated Occupation: Foresters (19-1032)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Problem Sensitivity	11.1	14.8	11.1	<<	Extensive improvement in abilities may be required
Category Flexibility	9.0	13.0	9.8	<<	Extensive improvement in abilities may be required
Originality	7.6	12.6	7.7	<<	Extensive improvement in abilities may be required
Time Sharing	6.6	8.4	7.9	0	Current ability level may be sufficient
Spatial Orientation	2.7	8.3	7.4	<	Some improvement in abilities may be required
Dynamic Strength	3.5	6.6	6.5	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 100

Focus Occupation: Forest and Conservation Technicians (19-4093)

Associated Occupation: Foresters (19-1032)

Work Activities	Exclusivity of Activity
Adhere to safety procedures	12
Advise clients or customers	19
Analyze adaptability of tree species to new environmental conditions	99
Analyze biological research, test, or analysis data	70
Analyze forest conditions to determine reasons for species prevalence	99
Analyze scientific research data or investigative findings	27
Classify plants, animals, or other natural phenomena	69
Collect scientific or technical data	30
Collect statistical data	47
Communicate technical information	4
Conduct field research or investigative studies	52

Conduct training for personnel	30
Control and extinguish municipal or forest fires	89
Determine best method for attacking fire	92
Develop or maintain databases	30
Develop tables depicting data	33
Direct and coordinate activities of workers or staff	3
Direct and coordinate fire prevention and suppression activities	92
Direct construction of recreation facilities or fire safety features	99
Direct loading of fire suppression equipment	95
Draw maps or charts	69
Ensure compliance with government regulations	76
Estimate standing timber or future growth	99
Explain complex mathematical information	30
Give directions to crew on fire line during forest fire	92
Identify plant characteristics	92
Interpret aerial photographs	69
Judge soil conditions	77
Make presentations	13
Observe fire to note changing conditions	92
Operate forestry equipment	92
Perform statistical analysis	71
Plan forestation, reforestation, or range revegetation projects	95
Prepare reports	8
Read maps	42
Read measuring or metering devices used in forestry	89
Recognize plant diseases	72
Recognize tree or forest plant species	78
Recognize wood species characteristics	78
Record test results, test procedures, or inspection data	48
Use biological research techniques	68
Use computers to enter, access or retrieve data	3
Use fire suppression techniques	89
Use forest fire protection methods	89
Use forestry, range, or other public land management techniques	92
Use government regulations	44
Use herbicides, fertilizers, pesticides or related products	71
Use knowledge of environmental laws and regulations	76
Use knowledge of investigation techniques	16
Use long term forest or range land planning techniques	95
Use mathematical or statistical methods to identify or analyze problems	30
Use plant disease control techniques	75
Use pollution control techniques	62
Use public speaking techniques	13
Use quantitative research methods	35
Use relational database software	26
Use scientific research methodology	21
Use spreadsheet software	18
Use timber grading standards	99

Use timber scaling procedures	99
Use word processing or desktop publishing software	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Forest and Conservation Technicians (19-4093)
Associated Occupation: Foresters (19-1032)

Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.